How to engage and educate healthcare professionals and the public in antimicrobial stewardship

Dr. Jacqueline Sneddon, Glasgow, Scotland EAHP Academy Seminar, Antibiotic Stewardship for Beginners





Disclosure of Relevant Financial Relationships

NO DECLARATIONS

Questions about education and engagement in antimicrobial stewardship

Education of healthcare professionals is an important aspect of tackling AMR





Healthcare staff will learn most about AMR through attending lectures



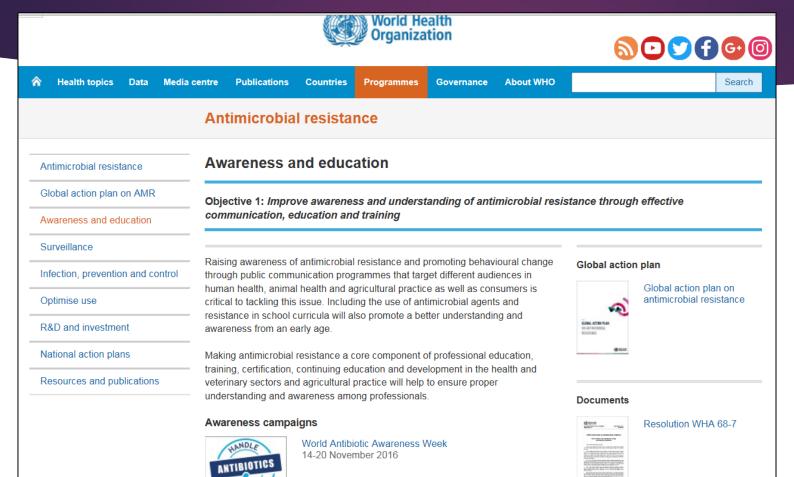
Antibiotic awareness campaigns should only target patients and the public



Overview of session

- ▶ Education resources available
- Engaging learners and changing behaviour
- ▶ The role of networks and champions in supporting education
- National campaigns for EAAD
- ▶ How patients and the public can support stewardship

Education recognised as priority by WHO



http://www.who.int/anti microbial-resistance/en/

Global Framework for Development & Stewardship to Combat Antimicrobial Resistance - Draft roadmap pdf. 631kb

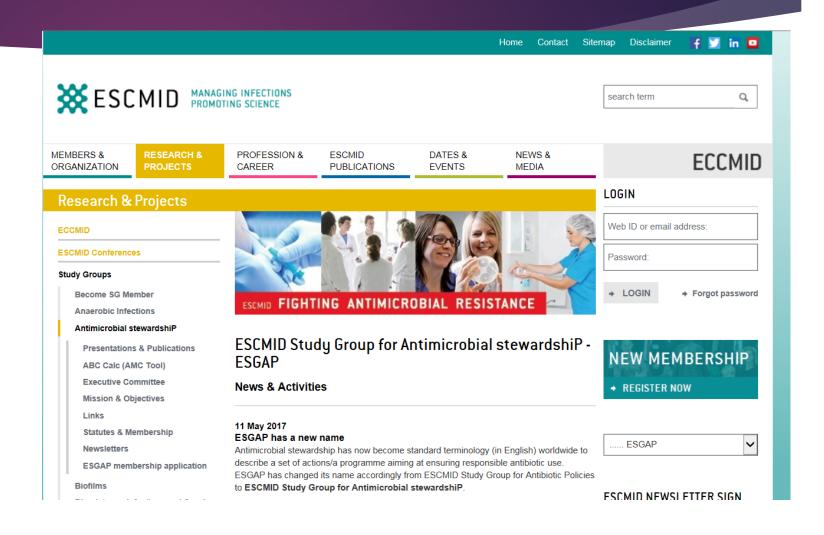
World Health Day: Antimicrobial resistance: no action today, no cure tomorrow 7 April 2011

European network - ESGAP

European Society for Clinical Microbiology and Infectious Diseases

Antimicrobial stewardship group

http://esgap.escmid.org/



European network - ESGAP

Antimicrobial Stewardship
Open Virtual Learning Community

Login

- Login
- Forgot password
- Registration

AS-OVLC

Principles of Antimicrobial Use

AS Interventions

Implementation of AS

Education / Training

Research

Multi-professional resources available

Membership from 38 Euros per year

http://esgap.escmid.org/

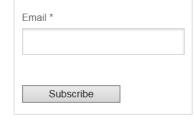


Antimicrobial Stewardship Staffing: Let's Have the Tiger by the Tail

By Celine Pulcini | 3 August, 2017 | No Comments

It is time we got serious about tackling bacterial resistance. Funding priority is given to innovation (new diagnostics and new antibiotics), while ensuring sustainable and sufficient funding of antibiotic stewardship ...

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Access, Watch and Reserve Antibiotics in the WHO Essential Medicines List

By Celine Pulcini | 17 July, 2017 | No Comments

WHO has released its updated Essential Medicines List, for adults and children (See here). The Antibiotics' list has been completely updated,

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- Events (24)
- News (34)
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British Society for Antimicrobial Chemotherapy (BSAC)



appropriate use and development of antibiotics now and in the future. Communicates effectively about antibiotics and antibiotic usage via workshops, professional guidelin

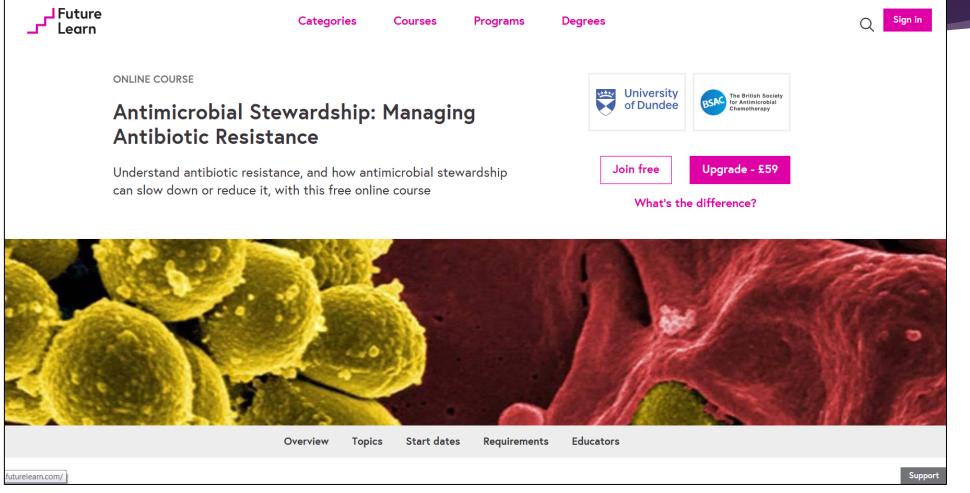
Journal of Antimicrobial Chemotherapy

Educational events and online resources

Strategy incudes supporting global education to tackle AMR

http://bsac.org.uk/

British Society for Antimicrobial Chemotherapy (BSAC)



Free 6-week course involving 3 hours study per week

Interactive and includes discussion with other learners

Health Education England resource



An extraordinary project in terms of breadth and skill of content

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Reducing Antimicrobial Resistance

An e-learning package to support staff in understanding the threats posed by antimicrobial resistance



Menu

- Antimicrobial
 Resistance
- Resources for all staff working in health and social care
- Resources for all staff working in primary care (including GPs)
- Meet the team
- Open access session
- How to access

Open access session

Please note that if you access the content below your progress and completion will not be recorded and you will not be able to generate a record of completion. If you are a health or social care professional and require evidence of learning, please register for access and then log in to access this programme on the e-LfH Hub.

This session provides key facts about antimicrobial resistance and describes the important role everyone working in a health and care environment has in tackling it. It also discusses relevant aspects of the antimicrobial prescribing and stewardship competences.

Play



In partnership with

NHS
Health Education England

e-LfH is a Health Education England Programme in partnership with the NHS and Professional Bodies

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http://www.e-Ifh.org.uk/programmes /antimicrobialresistance/openaccess-session/

Public Health England prescribing competencies

Antimicrobial prescribing and stewardship competencies

Antimicrobial prescribing and stewardship (APS) competencies

Developed by ARHAI¹ and PHE through an independent multi-professional development group.

The goal of the APS competencies

The goal is to improve the quality of antimicrobial treatment and stewardship and so reduce the risks of inadequate, inappropriate and ill-effects of treatment. This will improve the safety and quality of patient care, and make a significant contribution to the reduction in the emergence and spread of antimicrobial resistance. Antimicrobial stewardship is an important element of the UK five-year antimicrobial resistance strategy (1) and the Chief Medical Officer's annual report (2).

Competency 1: Infection prevention and control

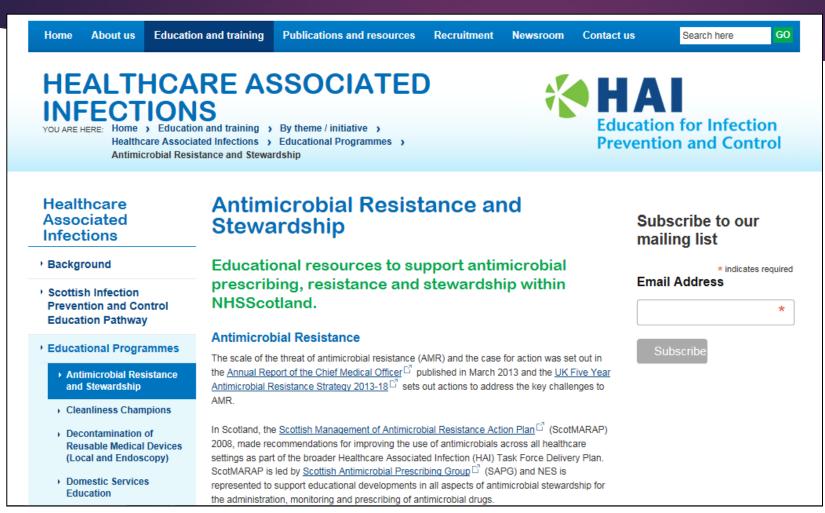
Competency 2: Antimicrobial resistance and antimicrobials

Competency 3: Prescribing antimicrobials

Competency 4: Antimicrobial stewardship

Competency 5: Monitoring and learning

NHS Education for Scotland resources



Led by NHS Education for Scotland (NES) HAI team with input from NES Pharmacy team and links to other professions – GPs, dentists, psychologists

NES open resources

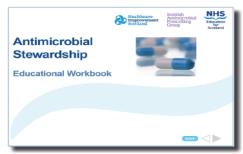


Scottish Antimicrobial Prescribing Group



Antimicrobial Stewardship

Taking care of antibiotics
The supporting role of the nurse
and midwife



The vital role that nurses and midwives can play as part of the multidisciplinary approach to antimicrobial stewardship has been recognised in recent years and this has led to the development of an interactive educational resource.

The workbook allows learners to assess their current level of knowledge and identify potential development needs in each section of the workbook.

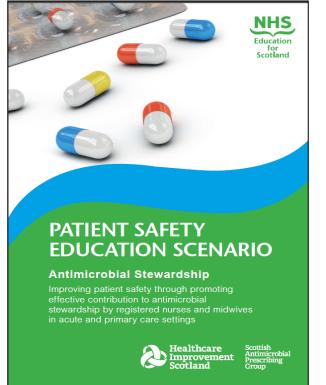
Educational interactive and print version workbook is available to download from the NES website: http://ow.ly/XG7EB

For further information on the workbook please contact:

The NES HAI Team: hai@nes.scot.nhs.uk

To discuss the Antimicrobial Stewardship Workbook where you work contact:





Content aimed at nurses and midwives in Scotland but suitable for all health and care staff as revision/introduction to key topics within stewardship

Learning needs

- In designing an education programme it is important to find out the learning needs of the intended audience
- A simple survey or just asking people will help identify what the content should include to meet their gaps in knowledge
- Assessing learning needs will also inform the format required for the education knowledge (facts), development of skills (practical tasks), application to practice (reflection), demonstration of competency (assessment process)
- When undertaking personal learning it is important to identify your own learning needs – what do I want to get from this learning?

Learning styles

- In designing an education programme it is also important to acknowledge different learning styles
- Some people just want to gain knowledge through reading relevant materials and/or listening to lectures
- Others find that receiving some learning then applying it to practice works better
- Discussion with peers may be a helpful element for some learners
- Education programmes often use a 'blended learning' approach as this has a range of elements to appeal to all e.g. pre-reading, lecture/on-line content, practical task, discussion with tutor/other learners

Education and behaviour change

- ► Education within hospital practice is often delivered to raise awareness of and provide information about local policies and procedures to be followed
- Therefore education aims to influence staff behaviour
- When areas for improvement are identified education then often aims to change behaviour
- ▶ It is widely acknowledged that changing behaviour is difficult and requires use of social science skills
- A recent Cochrane review of the literature on stewardship interventions in hospital concluded that 'The majority of the interventions do not use effective behaviour change techniques such as action planning or feedback'.

What is important for effective behaviour change?

- Culture within the organisation (hospital)
- Action plans and goals which are shared within a team
- ► Local champions and management support
- Setting standards for what behaviours are expected and about performance against these behaviours
- Team dynamics and priorities hierarchies can prevent behaviour change

Also consider what might matter to an individual and persuade them to change:

- Why should I change my practice?
- What benefits are there for me?
- How will this benefit my patients?

Knowledge into action

- Cochrane education is an intervention to support stewardship.
- ► Education sessions should conclude with **action planning** participants agree how they will apply their learning to their practice.
- May be helpful to keep in touch with other learners for peer support with delivering their actions.
- ► Follow-up is also important to assess whether actions have been carried out and whether any further learning is required to support their practice i.e. **feedback** on impact of learning.

Stewardship champions

DEFINITION OF CHAMPION - a person who vigorously supports or defends a person or <u>cause</u>

- Mandating stewardship senior managers/hospital Board mandate stewardship
- Key opinion leaders within a hospital can influence peers senior clinicians
- Antimicrobial Teams multi-professional groups that can each influence their professional group
- ► 'Link' person in each ward junior doctor, pharmacist of member of nursing staff as local lead for stewardship
- Infection control staff raise awareness of stewardship as part of their role
- Patient safety staff raise awareness of stewardship as a patient safety issue

Pharmacist Networks to support stewardship

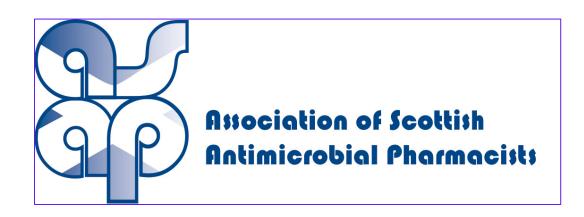
Network of pharmacists across single hospital, region or country

Virtual communication

Share good practice and learn from each other

Discuss common issues and problems

Link with other professional networks



- ▶ National peer support group established in 2004 now 25-30 members
- Support national stewardship work, share good practice and develop clinical specialty
- Annual work plan with education and research as key focus
- Links with two Schools of Pharmacy to support UG and Masters training
- Key achievements include:
 - development of Specialist Vocational training for pharmacists in Infection and Antimicrobial Stewardship
 - national pre-registration pharmacist study day (won UKCPA award)
 - national courses held in all regions for continuing professional development aimed at community pharmacists (2010 and 2015)



- National group of primary care pharmacists with Lead Pharmacist in each region
- Contribute to development of quality indicators in key areas of prescribing practice which reflect safe and cost effective prescribing
- Key support group for influencing primary care prescribers
- Involved in local Antimicrobial Management Teams
- Lead initiatives to share prescribing data and provide education on AMR with primary care teams
- Link to social care settings e.g. Care homes





UK Clinical Pharmacy Association Pharmacy Infection Network

- Develop and lead on UK antimicrobial stewardship initiatives
- Provide an educational programme to enable the sharing of knowledge and allow networking opportunities
- Contribute to national advanced practitioner competency framework and national training programme
- Undertake research and support national and international collaboration with other infection societies
- ► To advise the Royal Pharmaceutical Society, Department of Health and other professional and government organisations on infection matters
- Overseas members encouraged

UKCPA PIN key achievements



ANTIMICROBIAL STEWARDSHIP

EXPERT PROFESSIONAL PRACTICE CURRICULUM

Professional curriculum to support members with the knowledge, skills, experience and behaviours to advance in their practice

2014

FACULTY



J Antimicrob Chemother 2015; **70**: 1277 – 1280 doi:10.1093/jac/dku543 Advance Access publication 5 January 2015 Journal of Antimicrobial Chemotherapy

Development of an expert professional curriculum for antimicrobial pharmacists in the UK

Jacqueline Sneddon1*, Mark Gilchrist2 and Hayley Wickens3

¹Scottish Antimicrobial Prescribing Group, Healthcare Improvement Scotland, Glasgow, UK; ²Imperial College Healthcare NHS Trust, London, UK; ³University Hospital Southampton NHS Foundation Trust, Southampton, UK

Infect Dis Ther (2015) 4 (Suppl 1): S51-S64 DOI 10.1007/s40121-015-0080-z

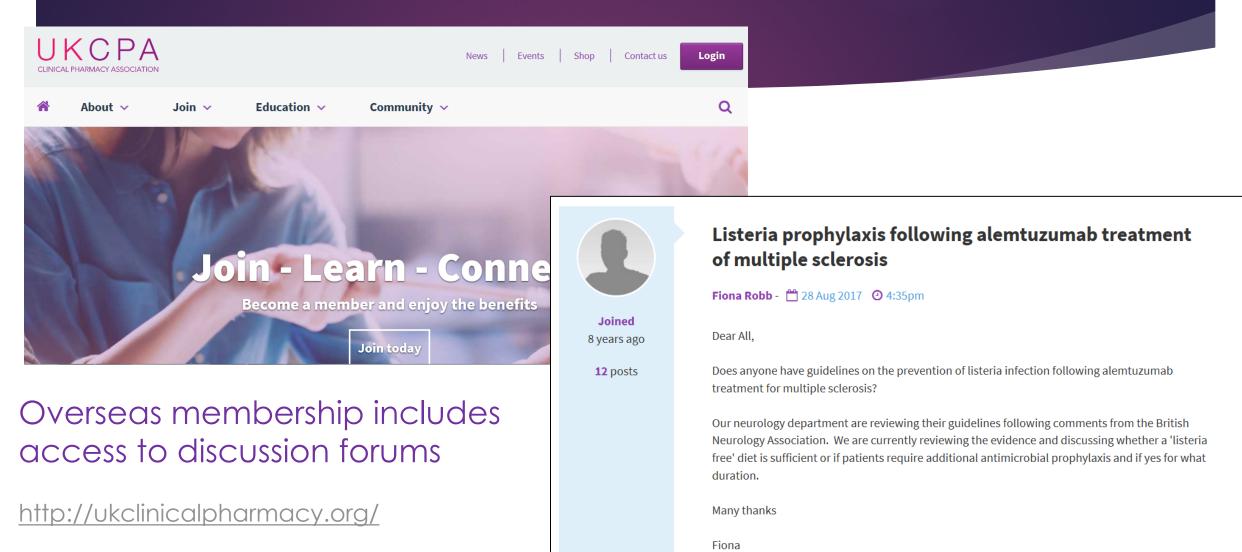


REVIEW

Antimicrobial Stewardship from Policy to Practice: Experiences from UK Antimicrobial Pharmacists

Mark Gilchrist · Paul Wade · Diane Ashiru-Oredope · Philip Howard · Jacqueline Sneddon · Laura Whitney · Hayley Wickens

UKCPA membership



Public Campaigns to tackle AMR

Sign up for WHO updates

World Tuberculosis Day

World Health Day

World Immunization Week

World Malaria Day

World No Tobacco Day

World Blood Donor Day

World Hepatitis Day

World AIDS Day

World Antibiotic Awareness Week

World Antibiotic Awareness Week

13-19 November 2017



Antibiotic resistance is an increasingly serious threat to global health and human development. It is rising to dangerously high levels in all parts of the world, compromising our ability to treat infectious diseases and putting people everywhere at risk.

World Antibiotic Awareness Week aims to increase awareness of this important issue and to encourage best practices among the public, health workers, farmers, food ducers, veterinarians and policy makers to avoid the further emergence and www.who.int/entity/campaigns/malaria-day/en/



Antibiotic resistance

Fact sheet on antibiotic resistance

Global action plan on antimicrobial resistance

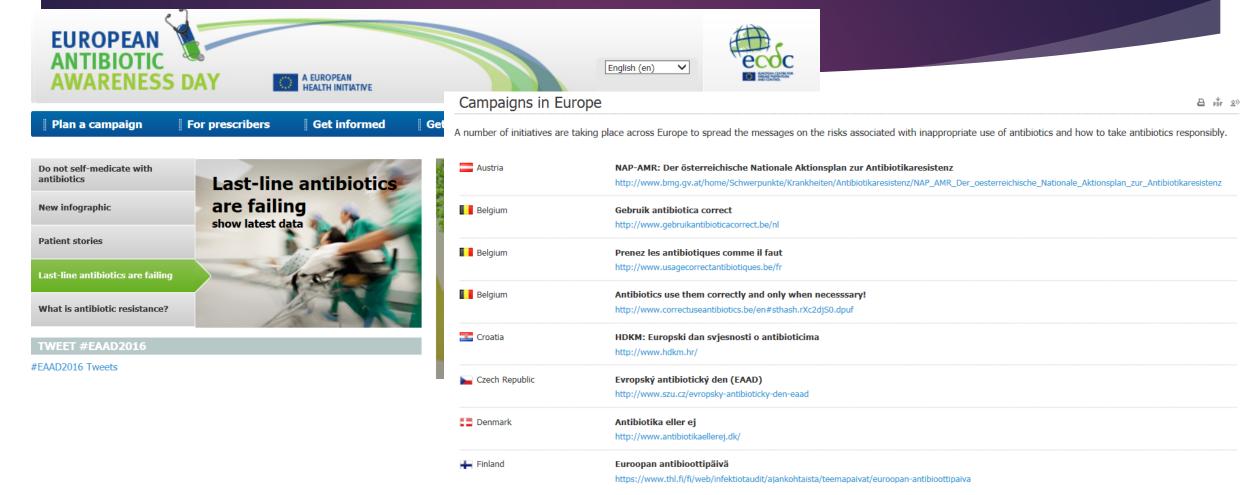
How to stop antibiotic resistance? Here's a WHO prescription Launched in 2015 to bring together and support several country-wide and Europe-wide campaigns

European Antibiotic Awareness Day (EAAD)

- Started in Europe in 2008, led by the European Centre for Disease Prevention and Control (ECDC)
- ► The European Antibiotic Awareness Day is an annual European public health initiative that takes place on 18 November to raise awareness about the threat to public health of antibiotic resistance and the importance of prudent antibiotic use. The latest data confirms that across the European Union the number of patients infected by resistant bacteria is increasing and that antibiotic resistance is a major threat to public health.
- ▶ Prudent use of antibiotics can help stop resistant bacteria from developing and help keep antibiotics effective for the use of future generations.

http://antibiotic.ecdc.europa.eu/en/eaad/Pages/Home.aspx

European Antibiotic Awareness Day (EAAD)



http://antibiotic.ecdc.europa.eu/en/eaad/Pages/Home.aspx

Antibiotic Guardian Campaign



- ► Started in 2014 by Public Health England, promoted throughout the UK and now in many other countries
- Healthcare professionals, animal health partners and the public engaged in awareness of antibiotic use and encouraged to make a personal pledge
- Data to date show that majority of those who have pledged are healthcare professionals or have links to them
- ▶ New approach needed to engage the public 'Keep Antibiotics Working'

http://antibioticguardian.com/

Antibiotic Guardian Campaign





Secondary Care Prescriber's Checklist

Antibiotics

-Overuse and incorrect use drives resistance

Do not start antibiotics in the absence of evidence of bacterial infection

START SMART:

- Obtain cultures prior to commencing therapy if appropriate
- ☐Take a history to establish drug-related allergies
- If there is evidence/suspicion of bacterial infection, use local guidelines to initiate prompt effective antibiotic treatment
- Administer antimicrobial therapy within ONE hour of recognition of severe sepsis or septic shock
- Document indication(s), severity, route dose, and duration/review date for antibiotic prescription on prescription chart and in clinical notes
- Where antibiotics have been shown to be effective for surgical prophylaxis, give a single dose within 60 minutes before incision
- Consult infection expert(s) and/or pharmacists if appropriate

THEN FOCUS:

At 48 - 72 hours; review the patient and make a clinical decision "the

Antimicrobial Prescribing Decision" on the need for on-going antibiotic therapy.

Does patient's condition and/or culture result(s) necessitate:

- Stop of antibiotic therapy (if no evidence of infection)
- Switch from intravenous to oral therapy
- Change: de-escalation/substitution/addition of agents
- Continuation of current therapy
- Outpatient Parenteral Antibiotic Therapy (OPAT)

HANDLE

WITH

CARE!

Document Decision & Next Review Date or Stop Date

#antibioticguardian

Without effective antibiotics many routine operations like hip replacements, organ transplants, caesarean sections and treatments for sepsis or chemotherapy will become increasingly dangerous or impossible.



Over-use of antibiotics can lead to the development of drug-resistant bacteria which can cause serious infections.



Antibiotics can cause side effects such as rashes, thrush, stomach pains, diarrhoea, reactions to sunlight and other symptoms



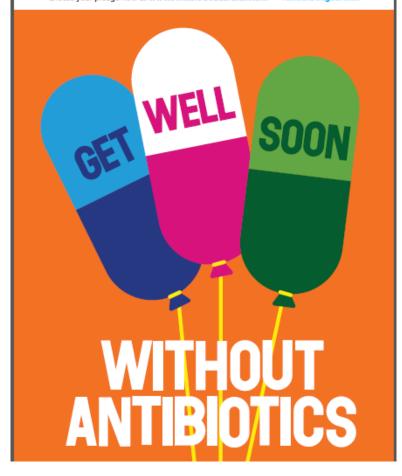
Help conserve antibiotics so that they remain effective



Your actions can protect antibiotics, join us at AntibioticGuardian.com



Choose your pledge now at www.AntibioticGuardian.com



Reference: Antimicrobial Stewardship Toolkit for Secondary Care: Start Smart - then Focus SSTF was developed by the Department of Health expert advisory committee on Antimicrobial Resistance and Healthcare Associated Infection (ARHAI) and Public Health England

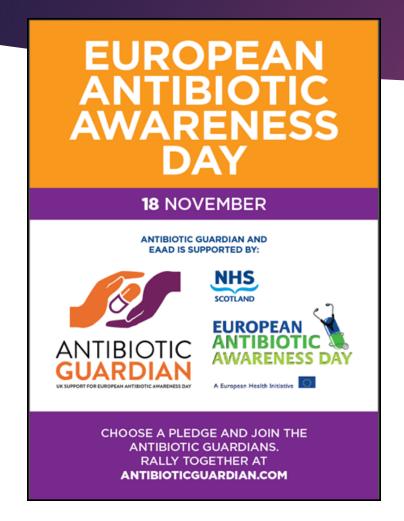
Pledges for pharmacists

SELECT A PLEDGE MESSAGE*

Messages will display below

- I will check that antibiotic prescriptions comply with local guidance and query those that do not
- Every time a customer presents with a self-limiting respiratory infection I will use the patient information leaflet to explain the potential duration of illness and how to treat their symptoms available at: http://bit.ly/TARGET_patient_leaflets
- When handing out a prescription that includes antibiotics, I will inform the patients of dose and duration and to take their antibiotics exactly as prescribed and to return any unused antibiotics to a pharmacy for safe disposal
- When customers pick up an antibiotic prescription, I will encourage them to take the Antibiotic Guardian quiz online and to choose their own pledge to become Antibiotic Guardians

EAAD in Scotland



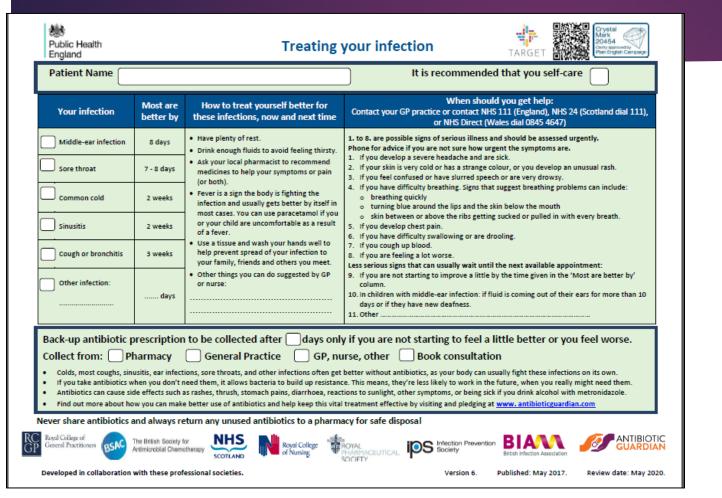


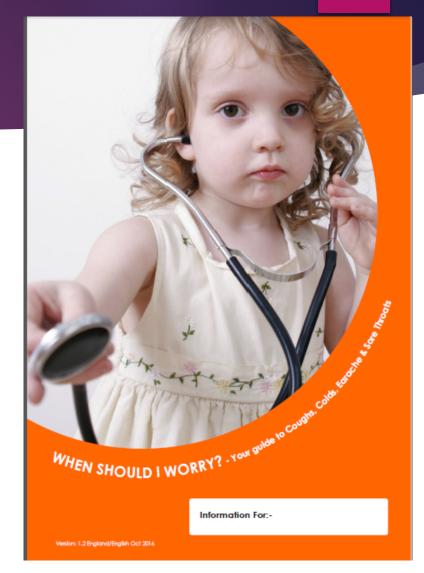


What information do patients and the public need?

- ▶ Self-limiting infections such as coughs, colds, sore throats do not require antibiotics and can be managed with rest, fluids and simple analgesics.
- ▶ The expected duration of common respiratory tract infections.
- ► Taking antibiotics when they are not needed can be harmful unwanted side effects and risk of resistance. Common misunderstanding that the person becomes resistant to antibiotics rather than the bacteria.
- What to do if they feel more unwell and specific symptoms that may suggest a more serious infection.

Useful resources for patients





Questions about education and engagement in antimicrobial stewardship

Education of healthcare professionals is an important aspect of tackling AMR



Healthcare staff will learn most about AMR through attending lectures



Antibiotic awareness campaigns should only target patients and the public



THANKS FOR LISTENING

ANY QUESTIONS

jacqueline.sneddon@nhs.net